Tech Support file

HITACHI

COLOUR MONITOR

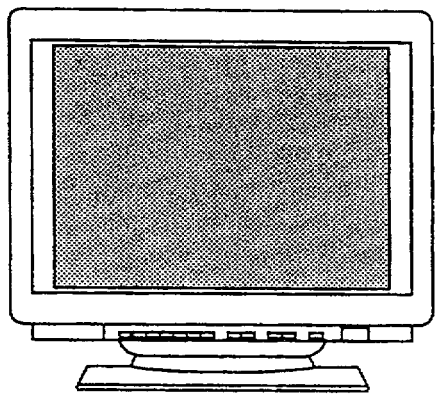
CM802E
CM802ET
CM803ET

For CM802ET and CM803ET only

USER'S MANUAL

with **EasyMenu!**

EasyMenu is HITACHI's On Screen Display function for easy operation.



READ THE INSTRUCTIONS INSIDE CAREFULLY
KEEP THIS USER'S MANUAL
FOR FUTURE REFERENCE.

For future reference, record the serial number of your colour monitor.

SERIAL No. _____

The serial number is located on the rear of the monitor.

MADE FROM 100% RECYCLED PAPER

EPA POLLUTION PREVENTER

This monitor is Energy Star compliant when used with a computer equipped with VESA DPMS.

The Energy Star emblem does not represent EPA endorsement of any product or service.

COLOUR MONITOR

CM802E
CM802ET
CM803ET

USER MANUAL

EN

NOTICE

The information in this manual is subject to change without notice. The manufacturer assumes no responsibility for any errors that may appear in this manual.

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TRADEMARK ACKNOWLEDGEMENT

VGA is a registered trademark of International Business Machines Corporation.
Apple and Macintosh are registered trademarks of Apple Computer, Inc.
VESA is a trademark of a nonprofit organization, Video Electronics Standard Association.
Energy Star is a trademark of Environmental Protection Agency (EPA).

FEATURES

The following features are provided by the HITACHI Colour Monitor.

Sharpest Focus and Highest Contrast

Flat screen CRT with anti-glare, dynamic focus circuit, dark glass, and an INVAR shadow mask gives the sharpest focus and highest contrast to minimize eye fatigue.

Wide-range Multi-Scanning

Automatic scanning and automatic adjustment to conform with a wide range of scanning frequencies and user requirements.

Digital Picture Control Function

Size, position, pincushion, trapezoid, rotation, right pincushion and right trapezoid are adjustable by digital controls.
Geometry setting can be stored for different H/V frequencies. Microprocessor-based preset functions can store 26 sets of geometry settings including the standard factory settings.

Digital Colour Control Function

Red, green, and blue colour balance is adjustable by digital control.
Adjusted colour setting can be stored and recalled by the colour select button.

Power Saving System

The Environmental Protection Agency (EPA) has established a voluntary program by which manufacturers enable computer products to go into low power states while not being used. This monitor has a low power "sleep" mode, which is compliant with the EPA requirements for the "Energy Star" program, and will assist you in conserving energy.
Please refer to the section of "POWER SAVING SYSTEM" for details.

EasyMenu

On Screen Display function that allows direct access to adjust all operations from front panel.

Moire Reduction

This monitor has horizontal and vertical moire reduction function.

Plug & Play

This monitor is VESA DDC1/2B compliant when used with a computer compliant with VESA DDC (Display Data Channel).

CAUTIONS

⚠ NEVER REMOVE THE REAR COVER!

The rear cover MUST be removed only by authorized service personnel. This colour monitor contains high voltage components.

⚠ BE CAREFUL OF STATIC ELECTRICITY ON CRT SURFACE!

To prevent electrical shock by the static electricity on the CRT surface, disconnect the power cord at least 30 SECONDS AFTER turning off the power.

⚠ BE CAREFUL OF GENERATED MAGNETISM!

After the power has been turned on or the "DEGAUSS" button has been pressed, the CRT is demagnetized for approximately 10 seconds. This generates a strong magnetic field around the front cover which may affect the data stored on magnetic tape or disks near the front cover. Place such magnetic recording equipment and tapes/disks apart from this unit.

⚠ AVOID FREQUENT POWER ON-OFF SWITCHING!

DO NOT repeat OFF and ON in a short period. It may cause blurred colours or distortion of the displayed pattern.

⚠ REMOVE THE POWER CORD FOR COMPLETE SEPARATION!

For complete separation from the power source, remove the power cord from the monitor or from the wall outlet.

⚠ AMBIENT ILLUMINATION

Avoid direct rays of the sun or room lighting onto the CRT screen in order to prevent eye fatigue.

⚠ ABOUT CLEANING

This monitor has a non-glare and anti-electrostatic treatment on the surface of the screen. Use water or an alcoholic solvent with a soft cloth like gauze to clean the surface of the screen. NEVER use an abrasive, glass cleaner containing highly concentrated ammonia and strong base chemicals since they damage the surface treatment.
Clean the cabinet and controls with a lightly moistened soft cloth.
DO NOT use aerosol sprays, solvents or abrasive clearners.

⚠ BE CAREFUL OF POWER CORD CONNECTION

Before inserting the plug of the power cord into a receptacle of the correct voltage, check that the connection portion of power cord is clean (with no dust). Then, insert the plug of power cord to a receptacle firmly, otherwise it may cause electrical shock or fire.

⚠ CAUTION for 200 - 240V operation only

This equipment relies on the protective devices in the building installation for short-circuit and over-current protection. Refer to the following table for the suitable number and location of the protective devices which should be provided in the building installation.

Protective devices in single-phase equipment or sub-assemblies

	Protection against	Minimum number of fuses or circuit-breaker poles	Location
Equipment to be connected to POWER SYSTEMS with earthed neutral reliably identified	Earth faults	1	Both conductors
	Overcurrent	1	Either of the two conductors
Equipment to be connected to any supply, including IT POWER SYSTEMS and supplies with reversible plugs	Earth faults	2	Both conductors
	Overcurrent	1	Either of the two conductors

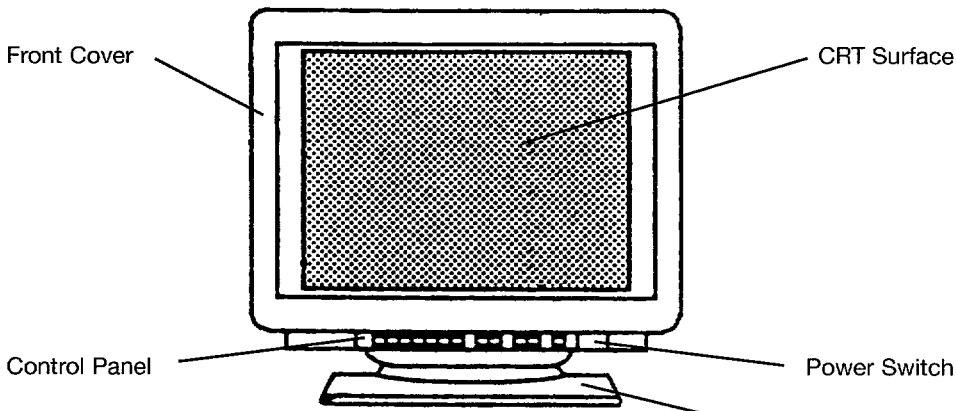
Verify that the protective devices in the building installation meets the conditions in the table prior to installing the equipment.

INSTALLATION

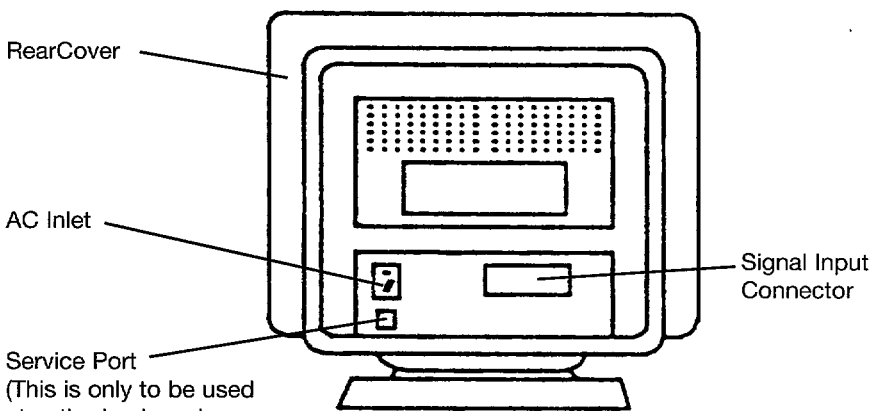
Install the monitor in the following way, taking care to maintain safety.

1. Installation

Install the monitor on a horizontal base.



FRONT VIEW



REAR VIEW

⚠ **NOTICE**

INSTALL THE UNIT IN AN ADEQUATE ENVIRONMENT!

DO NOT expose this monitor to rain or moisture to prevent electric shock or fire hazard. This unit is designed to be used in an office or business environment. DO NOT subject the unit to vibrations, dust or corrosive gases.

KEEP IN A WELL VENTILATED PLACE!

DO NOT cover this monitor or place anything against any sides (not only the top, right and left side but also the rear and bottom side) of unit. Ventilation holes are provided at all sides of the rear cover to prevent the temperature from rising.

KEEP AWAY FROM HEATING RADIATION OR SOURCE!

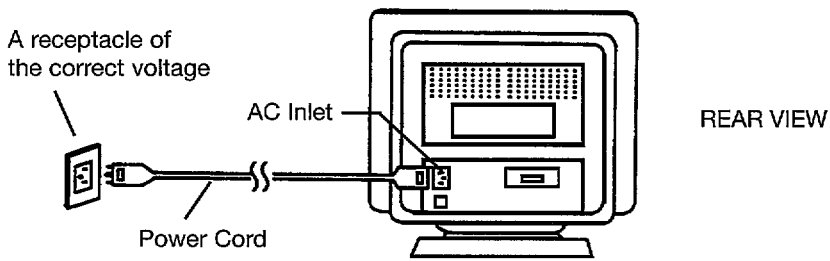
AVOID placing the unit in direct sunshine or near a heating appliance.

BE CAREFUL OF MAGNETIC FIELDS!

DO NOT place a magnet, loudspeaker system, floppy disk drive, printer, or anything which will generate magnetism near the unit. A magnetic field may cause blurred colours or distortion of the displayed pattern.

2. Power Cord Connection

1. Make sure to use a power cord meeting the safety standard of the country in which you are using the monitor.
2. Insert the connector of a power cord to the "AC Inlet" of the monitor.
3. Insert the plug of the power cord to a receptacle of the correct voltage.



⚠ **NOTICE**

- In Europe , a proper European standard approved power cord is to be used with this monitor. For a rated current up to 6 A, a type not lighter than H05VV-F 3G 0.75mm² or H05VVH2-F 3G 0.75mm² shall be used.
  In USA/Canada, use a UL LISTED/CSA LABELLED or CERTIFIED power cord set meeting the following specifications.
  Rating: min. 125V,7A Length: max.3.1m Type: SVT or SJT
  Plug type: NEMA 5-15P, Parallel blade, Grounding type, 125V, 15A
  Failure to do so may cause fire or electric shock hazard.
- The enclosed power cord shall be used if provided.
- Use only the correct voltage power outlet with safety ground connection.
  100 - 120 V for USA, Canada, etc.
  200 - 240 V for Europe, etc.
  (This monitor will automatically adjust to the input voltage 100 - 120 / 200 - 240 V.)
- The receptacle should be close to the monitor and easily accessible.

⚠ FOR THE CUSTOMERS IN THE U.K.

THIS PRODUCT IS SUPPLIED WITH A TWO PIN MAINS PLUG FOR USE IN MAINLAND EUROPE.
FOR THE U.K. PLEASE REFER TO NOTES ON THIS PAGE

IMPORTANT FOR UNITED KINGDOM

WORDING FOR CLASS 1 EQUIPMENT INSTRUCTION BOOKS AND LABELS

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS 1362 fuse must be used of the same rating. If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

Should it be necessary to change the mains plugs, this must be carried out by a competent person, preferably a qualified electrician.

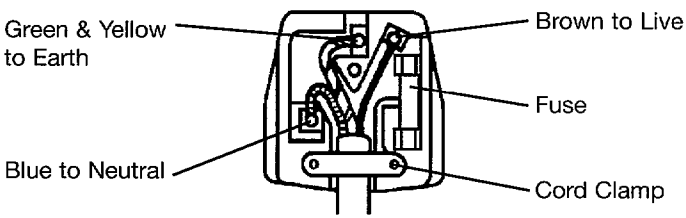
If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.

WARNING: THIS EQUIPMENT MUST BE EARTHED

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

Green and Yellow = Earth, Blue = Neutral, Brown = Live.



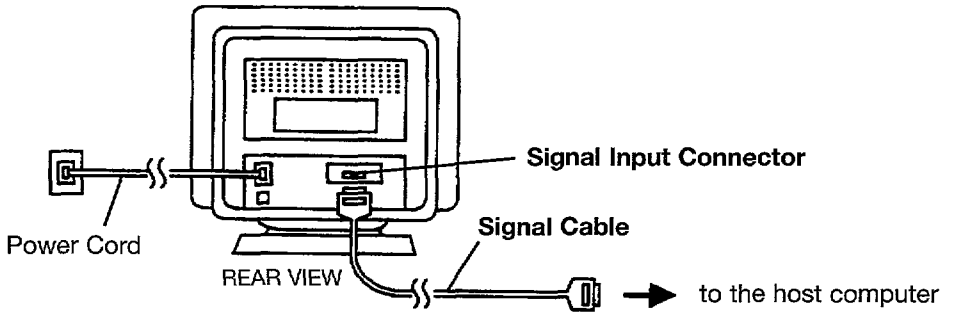
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN and YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol ⏚ or coloured GREEN or GREEN and YELLOW.

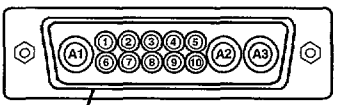
The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

3. Signal Cable Connection

1. Insert the connector of a signal cable to the **Signal Input Connector** of the monitor, with attention to the suitability, and secure the screws on the connector shell firmly.
2. Connect the other connector of the signal cable to the host computer.



- For model CM803ET, use a signal cable with the 13W3 Type D-Sub connector.

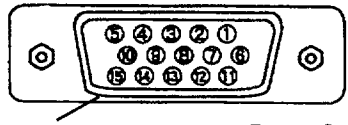


Shell (connected to Frame Ground)

13W3 Type D-Sub connector Terminal

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
A1	Red Video	1	Ground	6	H.Sync. (or H/V)
A2	Green Video (Sync. optional)	2	V.Sync [VCLK]	7	Ground
		3	Bi-directional Data [SDA]	8	Ground
		4	Data Clock [SCL]	9	Ground
A3	Blue Video	5	No connection	10	Ground

- For models CM802E and CM802ET, use a signal cable with the D-Sub Mini 15-pin connector.



Shell (connected to Frame Ground)

D-Sub Mini 15-pin connector Terminal

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	Red Video	6	Red Ground	11	No connection
2	Green Video (Sync. optional)	7	Green Ground	12	Bi-directional Data [SDA]
3	Blue Video	8	Blue Ground	13	H.Sync. (or H/V)
4	No Pin	9	No connection	14	V.Sync. [VCLK]
5	No connection	10	Ground	15	Data Clock [SCL]

- If the graphics board supplies more than one type of sync. signal, the sync. signal type will be automatically selected by the monitor, with the priority shown in the following table.

Sync. Signal Type	Priority
H., V. Separate Sync.	1
H / V Composite Sync.	2
Sync. on Green Video	3

4. Power On

Turn on the Power Switch of the monitor first, then the computer.
Refer to Page 10 "Power ON/OFF".

NOTICE

- After turning OFF the switch, wait at least 5 seconds to restart the monitor. Otherwise the monitor may operate unusually.
- If the picture doesn't appear, turn OFF the power switch, make sure of the following and wait at least 30 seconds to restart the monitor.

  Make sure the power switch of the computer, power cord connection, signal cable connection and the input sync. signal are right.
- If the colour is impure on the screen after turning ON the monitor, wait for 10 minutes and press the Degauss button.

STANDARD SETTINGS

Microprocessor-based preset functions can store 26 sets of geometry settings including the standard settings.

The following industrial standard settings have been preprogrammed by the factory.

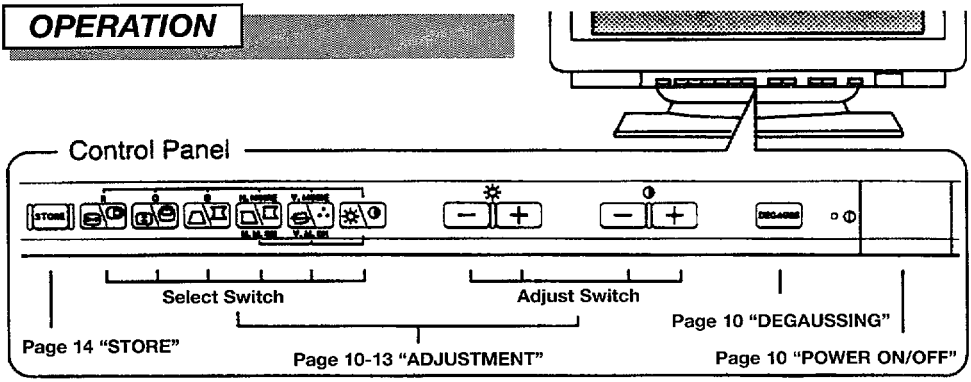
No.	Video Mode Name (with Resolution and Vertical Frequency)	Horizontal Frequency	Video Mode	CM802E	CM802ET	CM803ET
1	VGA 640 x 480-60 Hz	31.47 kHz	VGA	V	V	V
2	VESA 800 x 600-85 Hz	53.67 kHz	VESA	V	V	V
3	VESA 1024 x 768-85 Hz	68.68 kHz	VESA	V	V	V
4	Apple 1152 x 870-75 Hz	68.68 kHz	Macintosh 21 Color	V	V	-
5	VESA 1280 x 1024-85 Hz	91.15 kHz	VESA	V	V	V
6	VESA 1600 x 1200-75 Hz	93.75 kHz	VESA	V	V	V
7	VESA 1600 x 1200-85 Hz	106.25 kHz	VESA	-	-	V
8	VESA 1600 x 1200-90 Hz	112.50 kHz	VESA	-	-	V

NOTE

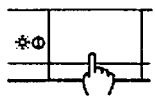
- Input signals with approximately the same frequencies may be regarded as the same signal.
- The following horizontal timing conditions are recommended (at sync. H.V separate or H/V composite).

  for 31 kHz - 52 kHz horizontal frequency:
  Horizontal front porch should be more than 0.1µs.
  Horizontal sync. width should be within 1.0 - 3.8 µs.
  Horizontal back porch should be more than 1.2 µs.
  Horizontal blanking width should be more than 3.5 µs.

  for 52 kHz - 100 kHz horizontal frequency:
  Horizontal front porch should be more than 0.1µs.
  Horizontal sync. width should be within 0.8 - 3.0 µs.
  Horizontal back porch should be more than 1.1 µs.
  Horizontal blanking width should be more than 2.3 µs.
- The following vertical timing conditions are recommended.
  Vertical front porch should be more than 9 µs.
  Vertical sync. width should be less than 100 µs.
  Vertical back porch should be more than 400 µs.
  Vertical blanking width should be more than 450 µs.
- If either the front or back porch is extremely long, or the data display time is extremely short, it may not be able to set the expected size and posiiton.
- Standard settings are subject to change without notice.
- This monitor is tested and conformed compliance with ZH1/618 and EN29241-3 (ISO9241-3) ergonomics requirement on VESA 1024 x 768 - 75Hz video mode.



POWER ON/OFF

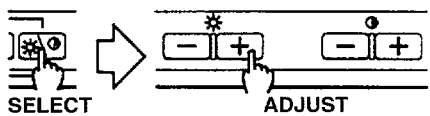


- Press the Power Switch (⏻), to switch the power ON/OFF.
  - When power is ON, the power LED lights.

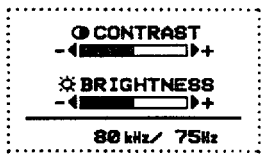
DEGAUSSING

- Press the switch [DEGAUSS], to degauss manually.
  - Use this function only when you see colour impurities on the screen after turning ON the monitor. Remember, the monitor is automatically degaussed during initial power on.
  - Wait for about 10 minutes before repeating the function.

ADJUSTMENT



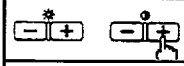
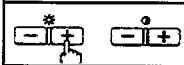
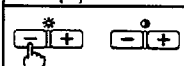
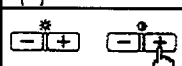
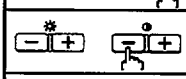
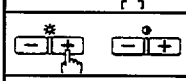
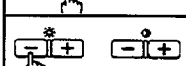
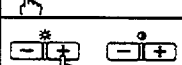
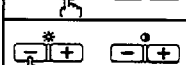
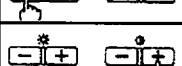
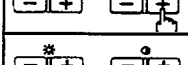
- Press the select switch of the item you want to adjust. Then you can adjust by the adjust switches shown in the following tables.
  - The On Screen Display function of "EasyMenu" shows selected items and adjusting conditions.
  - When EasyMenu is not shown, you can start the adjustment of Contrast and Brightness only, without pressing any select switch.
  - You can store the adjusted condition. Refer to Page 14 "STORE"



Sample of "EasyMenu"

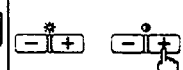
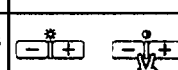
Item	Select Switch	Adjust Switch	Function
Contrast	☼◑	☼+	makes the display **brighter**, excluding the background.
		☼−	makes the display **darker**, excluding the background.
Brightness		◑+	makes the display **brighter**, including the background.
		◑−	makes the display **darker**, including the background.

ADJUSTMENT (Continued)

Item	Select Switch	Adjust Switch	Function
Horizontal Position			moves the display position to the **right.**
			moves the display position to the **left.**
Horizontal Size			**expands** the display horizontally.
			**shrinks** the display horizontally.
Vertical Position			moves the display position **up.**
			moves the display position **down.**
Vertical Size			**expands** the display vertically.
			**shrinks** the display vertically.
Rotation			rotates the whole image **clockwise.**
			rotates the whole image **anti-clockwise.**
Pincushion			curves the left/right sides of the display **outwards.**
			curves the left/right sides of the display **inwards.**
Trapezoid			**expands** the top side, and shrinks the bottom side.
			shrinks the top side, and expands the bottom side.
Right Pincushion			curves the right side of the display **outwards.**
			curves the right sides of the display **inwards.**
Right Trapezoid			**expands** the right top side, and shrinks the right bottom side.
			shrinks the right top side, and expands the right bottom side.

■ It is recommended to follow the following procedures for the adjustment of distortions;
"Rotation" → "Pincushion" and "Trapezoid" → "Right Pincushion" and "Right Trapezoid"
(Adjust the left side) (Adjust the right side)

ADJUSTMENT (Continued)

Item		Select Switch	Adjust Switch	Function	
Colour Select				changes the colour to the **next** mode.	No.1:9300K ↑↓ No.2:6500K ↑↓ No.3:5000K ↑↓ No.4:USER (if available)
				changes the colour to the **previous** mode.	
Colour Balance	Red	simultaneously. When Green or Blue is selected, is valid singly.		makes the **Red stronger**. When the Red reaches the upper limit, it makes the Green and Blue weaker.	
				makes the **Green and Blue stronger.** When the Green or Blue reaches the upper limit, it makes the Red weaker.	
	Green	simultaneously. When Blue or Red is selected, is valid singly.		makes the **Green stronger.** When the Green reaches the upper limit, it makes the Blue and Red weaker.	
				makes the **Blue and Red stronger.** When the Blue or Red reaches the upper limit, it makes the Green weaker.	
	Blue	simultaneously. When Green or Red is selected, is valid singly.		makes the **Blue stronger.** When the Blue reaches the upper limit, it makes the Red and Green weaker.	
				makes the **Red and Green stronger.** When the Red or Green reaches the upper limit, it makes the Blue weaker.	
	Colour Reset	(This operation is valid only when Red, Green or Blue is selected already.)	 simultaneously for about 2 seconds.	**cancels** the currently adjusted colour, and calls the colour condition of the previously selected colour mode.	

■ The mode "No.4:USER" is not factory set, and it is programmable if desired.
After adjustment of "Colour Balance" (Red, Green or Blue) and "STORE" (refer to page 14), your colour balance will be restored by selecting "No.4: USER".

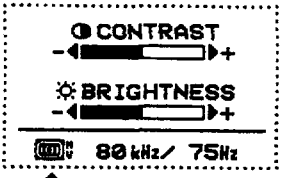
ADJUSTMENT (Continued)

Item	Select Switch	Adjust Switch	Function
Horizontal Moire Reduction	H. MOIRE and H. M. ON simultaneously.		**operates** the **horizontal** moire changing circuit.
			stops the **horizontal** moire changing circuit.
			makes the operation of the **horizontal** moire changing circuit **stronger.**
			makes the operation of the **horizontal** moire changing circuit **weaker.**
Vertical Moire Reduction	V. MOIRE and V. M. ON simultaneously.		**operates** the **vertical** moire changing circuit.
			stops the **vertical** moire changing circuit.
			makes the operation of the **vertical** moire changing circuit **stronger.**
			makes the operation of the **vertical** moire changing circuit **weaker.**

- Moire may appear on the screen due to interference between CRT dot pitch and video signal by conditions of video image, display size, display brightness, etc. Adjust the conditions of display size, display brightness etc., before the adjustment of moire.
- In some cases, this function may cause deterioration of display quality, such as focus, jitter, etc.

- The condition of the moire changing circuit will be indicated by pressing the select switch (CONTRAST/BRIGHTNESS), as the following.

Indicated symbol	Moire changing circuit condition	
	Horizontal	Vertical
H V	ON	ON
H	ON	OFF
V	OFF	ON
not indicated	OFF	OFF



Sample of "EasyMenu"

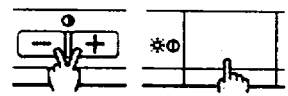
STORE

- Press the switch [STORE], to store the currently adjusting data as follows

STORED !

Item	Storing Condition	Restoring Condition
H.Position H.Size V.Position V.Size Pincushion Trapezoid Right Pincushion H.Moire Reduction V.Moire Reduction	One setting is allowed for **each video mode**. You can store maximum 26 sets of geometry settings including the standard settings (refer to page 9 "STANDARD SETTINGS"). ■ If your store is at its maximum already, storing a setting for new video mode overwrites the oldest user setting. ■ The video mode is distinguished by the horizontal/vertical frequency and polarity of the horizontal/vertical sync. signal. When the video modes are almost similar in these factors, however, the video modes may not be discriminated as different.	When the monitor detects **the same video mode**.
Colour Balance (Red, Green, Blue)	One setting is allowed to the colour balance **"No.4:USER"**.	When the colour balance **"No.4:USER"** is selected.
Rotation Right Trapezoid	One setting is allowed.	When the monitor detects a valid signal.
Contrast Brightness Colour Select	One setting is allowed. ■ It is normally not necessary to store them manually. No operation of about 8 seconds stores the currently adjusting data of these items, automatically.	

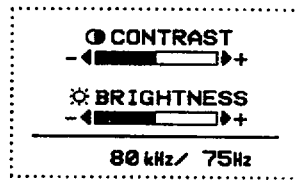
RESET



- Only when you want to cancel all your storing data, turn ON the power switch (⏻) while pressing the switches [−][+] together, to reset to the original standard settings.
  All your stored data will be lost and the all adjustment condition will be returned to the original settings.

SIGNAL CHECK

- To refer to the input signal condition, press the switch of the [☼◑] (CONTRAST/BRIGHTNESS).
  The horizontal frequency and vertical frequency will be indicated.



Sample of "EasyMenu"

■ Precision frequency, Horizontal approximately ± 2kHz
Vertical approximately ± 2Hz

AUTOMATIC SIGNAL CHECK

- When the monitor has detected the change of signal input condition, the monitor will indicate the condition automatically, as follows.

Condition	Indication	Sample of "EasyMenu"
When the monitor detects **proper signal.**	The EasyMenu indicates the horizontal frequency and vertical frequency. ■ Precision frequency, Horizontal approximately ± 2kHz Vertical approximately ± 2Hz	80kHz/ 75Hz
When the monitor detects **no sync. signal.**	The EasyMenu indicates the message "INVALID SYNC." for 5 seconds. ■ Verify power switch of the computer and cable connection.	INVALID SYNC.
When the monitor will go into **the power saving mode.** (Refer to page 16)	The LED of the power switch (⏻) flashes. ■ Verify power switch of the computer and cable connection.	———
When the monitor detects a **sync. signal which is out of set-up specification or is unstable.**	The EasyMenu indicates the message "INVALID SCAN FREQ." ■ Verify the specification of input signal.	INVALID SCAN FREQ.

Video Muting

- When the monitor has detected the change of the signal input condition, the monitor mutes the picture automatically.

  This function hides scrambled images which may appear during the changing period of the input signal.

  The muting period depends on the time that takes until the replaced signal becomes stable.

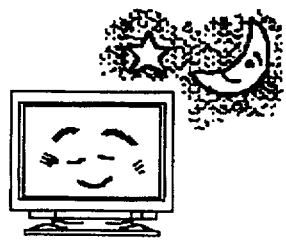
POWER SAVING SYSTEM

- This monitor complies with VESA, Nutek, and Energy Star power saving requirements. The power saving system works only when used with VESA DPMS compliant PC's and/or graphic controllers.

VESA DPMS				Power Saving States	
Mode	Video	H.Sync	V.Sync	Power Consumption	Power LED
ON	Active	Yes	Yes	130 W (nominal)	Lighting Green
Stand-by	Blanked	No	Yes	less than 30 W	Flashing quickly
Suspend	Blanked	Yes	No		
OFF	Blanked	No	No	approx. 4W	Flashing slowly

PLUG & PLAY

- This monitor complies with VESA DDC1/2B specifications. Plug & Play is a system enabling the easy connection of computers and peripherals (including monitors).
  It works when the monitor is connected to a DDC ready computer that is running an operating system software that provides plug & play capability.



SPECIFICATIONS

CRT	21 inch picture tube, 0.22mm horizontal dot pitch, (0.21mm horizontal mask pitch). Invar shadow mask, Black matrix, Short persistence phosphors, New Anti-Reflection coat.		
Input Signal	Video : 0.7 Vp-p, Analog Sync. : Separate H, V or Composite H/V TTL level or sync. on Green at 0.3 Vp-p		
		CM802E/ET	CM803ET
Synchronization	Horizontal :	31 - 100 kHz	31 - 115 kHz
	Vertical :	50 - 160 Hz	50 - 160 Hz
Resolution	Horizontal : Up to 1,600 dots Vertical : Up to 1,280 lines		
Video Clock Frequency	802E/ET 200 MHz (max.)	803ET 240 MHz (max.)	
Viewable Image Size	20.0 inches (508 mm), diagonal		
Viewable Image Area	Horizontal : 406 mm Vertical : 305 mm		
Colour Temperature	Standard Colour Balance 1 : 9300 K Standard Colour Balance 2 : 6500 K Standard Colour Balance 3 : 5000 K Colour Balance 4 : User defined		
Warm-up Time	30 minutes to reach optimum performance level.		
Power Supply	AC100 - 120 / 200 - 240 V, Automatically select. Provided with Power Save Circuit. Power Consumption : 130 W (nominal)		
Dimensions	488 (W) x 474 (H) x 534 (D) mm Including Tilt & Swivel base.		
Weight	33 kg		
		Operation	Storage
Environmental Condition	Temperature :	5°C to 35°C	-20°C to 60°C
	Humidity :	10% to 80%	10% to 90%

Specification and Design are subject to change without notice.

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